

ABSTRACT

A gas/air mixer assembly provides a Venturi metering system that may draw fuel from a zero governor, mix it with air to form a homogenous gas/air mixture for delivery to an internal combustion engine. The gas/air mixer assembly may also accept fuel under pressure from a gas metering valve or fuel injector for delivery to an internal combustion engine. The mixer includes an air horn, the relative position of which in relation to a shaped restriction body governs the air flow into the engine intake manifold. The flange of the air horn is configured to redirect the flow of air without generating significant turbulence, and providing a maximum velocity perpendicular flow to the injection of fuel to be mixed therein. The relative position of the air horn to the shaped restriction body is determined based on the cubic capacity and speed of the engine with which it is used.